Status of Claims:

1. (Currently Amended) An improved method for enhancing immune responses by upregulating co-stimulatory, B7 molecules, selected from the group of molecules consisting of B7.1, B7.2 and B7.3, the upregulating of the said co-stimulatory B7 molecules comprising the steps of administering a [glucan-containing] composition containing a glucan selected from the group consisting of B 1, 3 - glucans and B1,6 - glucans, to an animal or a human, in sufficient dosage to cause an enhanced expression of said co-stimulatory molecules on antigen presenting cells, said [the] co-stimulatory molecules providing a second signal to T lymphocytes, causing the T lymphocytes to differentiate into armed effector cells.

2.-10. (Canceled)

11. (Original) A method of using microparticulate beta -(1,3)-glucan as a vaccine adjuvant comprising the steps of:

preparing or obtaining a microparticulate beta -(1,3)-glucan composition which does not substantially reaggregate upon drying and rehydration which contains partially deacetylated N-acetylglucosamine with a free amino group;

suspending the microparticulate beta -(1,3)-glucan composition in liquid;

adding at least one vaccine or antigenic substance;

conjugating the vaccine onto the free amino group; and

administering the vaccine to an animal or human.

12. (Original) The method of Claim 11, wherein the glucan contains less than 5% by weight protein and lipid, more than 85% by weight glucose, and about 1-10% by weight chitin or partially deacetylated N-acetylglucosamine.

13.-23. (Canceled)